

**REPORT ON  
CONSTRUCTION COMPLETION AND FINAL AS-BUILT DRAWINGS  
BIOREMEDIATION AMENDMENT AND  
SOIL VAPOR EXTRACTOIN SYSTEM  
FORMER C-6 FACILITY, LOT 8  
LOS ANGELES, CALIFORNIA**

by

**Haley & Aldrich, Inc.  
San Diego, California**

for

**Boeing Realty Corporation  
4900 Conant Street, Building 1  
Long Beach, California 90808**

**File No. 28882-542  
23 May 2006**

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**BOE-C6-0051074**

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23 May 2006  
File No. 28882-542

Boeing Realty Corporation  
4900 Conant Street, Building 1  
Long Beach, California 90808

Attention: John Scott

Subject: Construction Completion Report and Final As-Built Drawings  
Bioremediation Amendment and Soil Vapor Extraction System  
Former C-6 Facility, Lot 8  
Los Angeles, California

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Dear Mr. Scott:

Haley & Aldrich, Inc. (Haley & Aldrich) is pleased to present this construction completion report to the Boeing Realty Corporation (BRC). This report describes major activities that occurred during installation of remediation infrastructure for soil and groundwater remediation programs at the BRC former C-6 Facility, Lot 8 in Los Angeles, California (Site).

This report has been divided into the following sections:

- Roles and Responsibilities
- Project Schedule
- Installation Observations
- Survey Report

#### ROLES AND RESPONSIBILITIES

This section identifies parties involved in the installation of the remediation infrastructure at the Site. These parties and their relationship to the project are as follows:

- **BRC:** Site owner responsible for soil and groundwater remediation and Site redevelopment.
- **Overton Moore Properties:** BRC's developer responsible for managing and coordinating Site redevelopment into a new commercial warehouse/storage building.
- **Haley & Aldrich:** BRC's environmental engineering services contractor responsible for the design of the remediation system installation and observing, verifying, and reporting on remediation infrastructure installation progress.

- **Innovative Construction Services, Inc. (ICS):** BRC's construction contractor responsible for installing the remediation infrastructure at the Site. Installation was conducted concurrently with new building construction.
- **Millie and Severson Inc.:** General contractor responsible for new building construction.
- **Tait Environmental Management, Inc. (TEM):** Redevelopment project civil engineer and land surveyor. Also retained by ICS to survey as-built locations of remediation infrastructure.

## PROJECT DESCRIPTION

Infrastructure for both soil and groundwater remediation systems was installed at the Site. The soil remediation systems includes 47 soil vapor extraction (SVE) wells connected via below grade piping to a remediation compound located at the northeast corner of the Site. The groundwater remediation system includes 193 bioamendment injection wells that are connected via below ground piping to three remediation vaults located on the northern and eastern sides of the Site. Supplementary remediation piping to support future groundwater extraction wells, remediation amendment fluid transfer, and electrical conductor and control conduits were also installed along the eastern portion of the Site between Knox Street to the south, and the remediation compound.

### System Design

The final design documents of the bioremediation amendment and soil vapor extraction system were issued on 22 December 2004. The design included subsurface piping that connected 193 bioamendment injection wells to three vaults located on the north and east sides of the Site. Subsurface piping connecting 47 SVE wells and six vapor mitigation wells to manifolds within the remediation compound were also installed.

After completion of the final design drawings on 22 December 2004, BRC requested addition of the following supplemental pipes to support future groundwater extraction wells, remediation amendment fluid transfer, and electrical conductor and control wiring installation.

- One 4-inch diameter high density polyethylene (HDPE) pipe with 8-inch diameter secondary containment.
- Four 2-inch diameter HDPE pipes with 4-inch diameter secondary containment laterals to the 4-inch diameter HDPE with secondary containment
- Two 4-inch diameter HDPE pipes
- Two 4-inch diameter polyvinyl chloride (PVC) pipes
- One 2-inch diameter PVC pipe
- One 4-inch diameter PVC electrical conduit
- Nine 1-inch diameter PVC electrical conduits

An updated final design drawing set with the supplemental remediation piping was issued on 26 July 2005. The as-built drawings (Appendix A) reflect the in-place configuration of the subsurface soil and groundwater remediation piping systems and supplemental remediation piping at the Site.

### **Construction Chronology**

Installation of the remediation system infrastructure at the Site began in the summer of 2004 and continued through the summer of 2005. The following dates summarize the periods of active, continuous installation of remediation infrastructure at the Site.

- 16 August 2004 through 13 July 2005: Installation of 193 bioamendment injection wells.
- 3 February 2005: Installation of vapor mitigation wells VMW-01 through VMW-06.
- 4 February 2005 through 31 March 2005: SVE and bioamendment wellhead completion, SVE piping, and bioamendment well piping on Parcel A (off Site to the north and east).
- 3 February through 6 April 2005: Installation of SVE, vapor mitigation well and bioamendment wellhead completions; SVE and vapor mitigation piping; and bioamendment well piping beneath the Lot 8 building footprint.
- 4 February 2005 through 1 October 2005: Installation of SVE and bioamendment wellhead completion, SVE piping, bioamendment well piping, bioamendment vaults, and the remediation compound beneath the exterior portions of the Site.

## **INSTALLATION OBSERVATIONS**

Haley & Aldrich personnel oversaw installation of the vapor mitigation wells and the bioamendment injection wells and observed installation of the remediation system infrastructure in accordance with the design drawings, and documented construction progress. Field notes are included as Appendix B and photographs taken during field observations are included as Appendix C.

The following sections summarize key aspects of well installation, remediation pipe installation and testing, and construction repairs.

### **Well Installation**

The remediation infrastructure at the Site includes three types of wells: SVE wells, vapor mitigation wells, and bioamendment injection wells. Installation of each of these types of wells is discussed below.

#### **A. Soil Vapor Extraction and Vapor Mitigation Wells**

The 47 SVE wells were installed at the Site between May 2002 and June 2004. Prior to Site grading the existing wells were disconnected from the SVE system, cut, and capped below

grade. After site grading, the well heads were excavated and re-connected to the SVE system via below ground piping.

Haley & Aldrich installed six vapor mitigation wells at the Site on 3 February 2005. These wells were installed within the building footprint for potential future use for venting soil vapors from beneath the building, if necessary. These six wells were connected to the SVE system via a below ground vapor mitigation header pipe.

#### B. Bioamendment Injection Wells

Haley & Aldrich oversaw the installation and development of 193 bioamendment injection wells in five phases (Phase I through Phase V) at the Site between 16 August 2004 and 13 July 2005.

Prior to installation, the proposed well locations were surveyed and staked. Each well was constructed of 2-inch diameter polyvinyl chloride (PVC) piping and were installed using hollow stem auger drilling methods to depths ranging from approximately 80 to 120 feet bgs. The wells were re-surveyed after installation to verify their final location. After development, wells were flow-tested to determine if they would perform as designed.

After each well installation phase, a field data report was prepared that summarized the well installation, development, and flow-testing of each well (Haley & Aldrich, 2005A 2005B 2005C 2005D and 2006). These reports also include copies of the well permits and well installation logs and are included as Appendix D of this report.

#### Remediation Piping Installation and Testing

Subsurface remediation piping was installed in two phases. The piping beneath the building footprint was installed between 3 February and 6 April 2005. Piping outside the building footprint was installed between 4 February 2005 through 1 October 2005.

Remediation infrastructure piping was pressure tested prior to connection to well heads and burial. The pressure testing PVC and HPDE pipes are summarized below.

#### A. PVC Pressure Testing

After assembly, a cap was solvent welded at each end of the PVC pipes. One cap was fitted with a pressure gage. The pipe was pressurized with air to a minimum of 10 pounds per square inch (psi) for 15 minutes. Each joint along the pipe alignments was then inspected for leaks using a water/soap solution.

One failure was observed during pressure testing of PVC pipes; a 90° elbow connection in pipes for SVE well 1-VEW-14B. The elbow connection was replaced and the pipe successfully retested. Copies of field notes and pressure testing documentation are provided in Appendix B.

#### **B. HDPE Pressure Testing**

After assembly, a cap was welded at one end of the HDPE pipes and a valve and pressure gage were connected at the other end of the pipes. The pipe was pressurized with water to between 165 and 170 psi for one hour. Each joint along the pipe alignments was then inspected for leaks. No HDPE pipe failures were observed. Copies of field notes and pressure testing documentation are provided in Appendix A.

#### **Field Design Changes**

Approved changes to the remediation infrastructure design included installation of a grade break in SVE piping and addition of supplementary remediation piping. These changes are reflected in the Final As-Built drawings included as Appendix A and discussed below:

##### **A. Supplemental Remediation Piping**

As previously discussed, supplementary remediation piping was added to the system design and the design drawings re-issued. Because of the inclusion of these pipes in the design, a 3-inch diameter PVC fluid supply line from the remediation compound to Vaults 2 and 3 was no longer necessary and was not installed.

##### **B. Addition of Sumps for Wells 1-VEW-15A and 1-VEW-15B**

On 14 March 2005, a buried concrete slab was discovered approximately 2.5 feet bgs between SVE well locations 1-VEW-15 and 1-VEW-16. The location of this slab prevented ICS from installing the pipes with the required slope from the remediation compound to wells 1-VEW-15A and 1-VEW-15B. Sumps, and a well box to access the sumps, were installed in the piping for these two wells at the south end of the slab. Piping from wells 1-VEW-17A and 1-VEW-17B were also re-routed to the south to avoid this slab.

##### **C. Electrical Service to Remediation Compound**

Electrical service for the remediation compound was included in the final design of the remediation infrastructure. During system construction, the electrical load requirements were increased. Re-design and permitting of the electrical service connection to the remediation compound was reassigned to Millie Severson and their electrical subcontractor.

##### **D. Trench Backfill within the Building Footprint**

At the request of the Millie and Severson, Inc., the upper 12-inches of the trenches within the building footprint were backfilled with compacted, native soils rather than slurry backfill.

#### **Construction Repairs**

During the course of remediation well and piping installation and site redevelopment, damage occurred to some of the wells and remediation piping. Items that were damaged and a description of the subsequent repairs are described below.

Boeing Realty Corporation

23 May 2006

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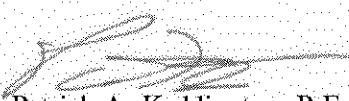
- On 21 March 2005, ICS accidentally damaged lateral pipes to Wells AW0078UP, AW0079UB, and AW0080UB while scraping back soil to check the compaction of a trench on the building pad. On 22 March 2005, ICS uncovered, repaired, and re-tested the piping associated with these wells.
- Bioamendment pipes routed from beneath the wall separating the warehouse from the office area (Wells AW0089UB, AW0090UB, AW0091UB, AW0100UB, AW0101UB, AW0102UB, AW0108UB, AW0109UB, AW0010UB, AW0111UB, AW0112UB, AW0115UB, AW0117UB, AW0118UB, and AW0119UB) were not buried deep enough to provide room for the wall strip footing. On 12 April 2005, ICS uncovered the pipes, cut the pipes on both sides of the strip footing trench, and installed a new pipe segment approximately 18-inches beneath the strip footing. Details of the repair are included in the as-built drawings in Appendix A of this report.
- On 11 August 2005, pipes for wells AW0116B and AW0107B were damaged near Vault 3 (immediately to the north west of the trash bin enclosure) during excavation of the trench for the supplemental piping. ICS repaired the pipes. Re-testing of the HDPE piping after repairs was not possible as the pipes had already been connected to the well heads and buried.

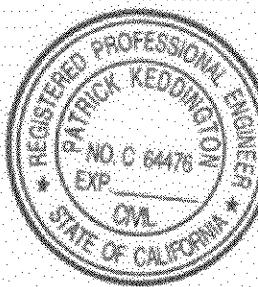
## SURVEY REPORT

TEM was contracted by ICS to survey as-built remediation infrastructure locations. This information was provided to Haley & Aldrich and used to prepare the as-built drawings for the bioremediation amendment and SVE systems (Appendix A). The data received by TEM has been included as Appendix E.

We appreciate the opportunity to provide environmental engineering services on this project. Please do not hesitate to call if you have any questions or comments.

Sincerely yours,  
HALEY & ALDRICH, INC.

  
Patrick A. Keddington, P.E.  
Senior Engineer



  
Mehdi Miremadi  
Senior Vice President

### Enclosures (on CD):

- Appendix A – Final As-built Drawings
- Appendix B – Construction Observation Field Notes
- Appendix C – Construction Observation Photographs
- Appendix D – Well Installation Reports
- Appendix E – TEM Survey Data

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## REFERENCES

1. Haley & Aldrich, 2005A. Field Data Report for the Lot 8 Phase I Amendment Well Installation Program, Former C-6 Facility, Los Angeles, California. 13 January 2005.
2. Haley & Aldrich, 2005B. Field Data Report for the Lot 8 Phase II Amendment Well Installation Program, Former C-6 Facility, Los Angeles, California. 17 May 2005.
3. Haley & Aldrich, 2005C. Field Data Report for the Lot 8 Phase III Amendment Well Installation Program, Former C-6 Facility, Los Angeles, California. 17 May 2005.
4. Haley & Aldrich, 2005D. Field Data Report for the Lot 8 Phase IV Amendment Well Installation Program, Former C-6 Facility, Los Angeles, California. 8 November 2005.
5. Haley & Aldrich, 2006. Field Data Report for the Lot 8 Phase IV Amendment Well Installation Program, Former C-6 Facility, Los Angeles, California. 16 February 2006.

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**APPENDIX A**  
**Final As-built Drawings**

**These As-Built Drawings are Posted to the Portal as Follows:**

**Boeing Realty Corporation  
Former C-6 Facility  
Los Angles, California  
Lot 8  
Bioremediation Amendment and  
Soil Vapor Extraction System**

**Prepared By:  
Haley & Aldrich, Inc.  
9040 Friars Road, Suite 220  
San Diego, California 92108**

**May 2006**

**APPENDIX B**  
**Construction Observation Field Notes**

**Construction Observation Field Notes**

**In Boeing's Project File**

**APPENDIX C**  
**Construction Observation Photographs**

**Construction Observation Photographs**  
**In Boeing's Project File**

## **APPENDIX D**

### **Well Installation Reports**

**These Reports are Posted to the Portal as Follows:**

**Field Data Report for the Lot 8 Phase I Amendment Well Installation Program  
Former C-6 Facility  
Los Angeles, California**

**Prepared By:  
Haley & Aldrich, Inc.  
9040 Friars Road, Suite 220  
San Diego, California 92108**

**13 January 2005**

**Field Data Report for the Parcel A of Lot 8 Phase II Amendment Well Installation Program  
Former C-6 Facility  
Los Angeles, California**

**Prepared By:  
Haley & Aldrich, Inc.  
9040 Friars Road, Suite 220  
San Diego, California 92108**

**17 May 2005**

**Field Data Report for the Lot 8 Phase III Amendment Well Installation Program  
Former C-6 Facility  
Los Angeles, California**

**Prepared By:  
Haley & Aldrich, Inc.  
9040 Friars Road, Suite 220  
San Diego, California 92108**

**17 May 2005**

**Field Data Report for the Lot 8 Phase IV Amendment Well Installation Program  
Former C-6 Facility  
Los Angeles, California**

**Prepared By:  
Haley & Aldrich, Inc.  
9040 Friars Road, Suite 220  
San Diego, California 92108**

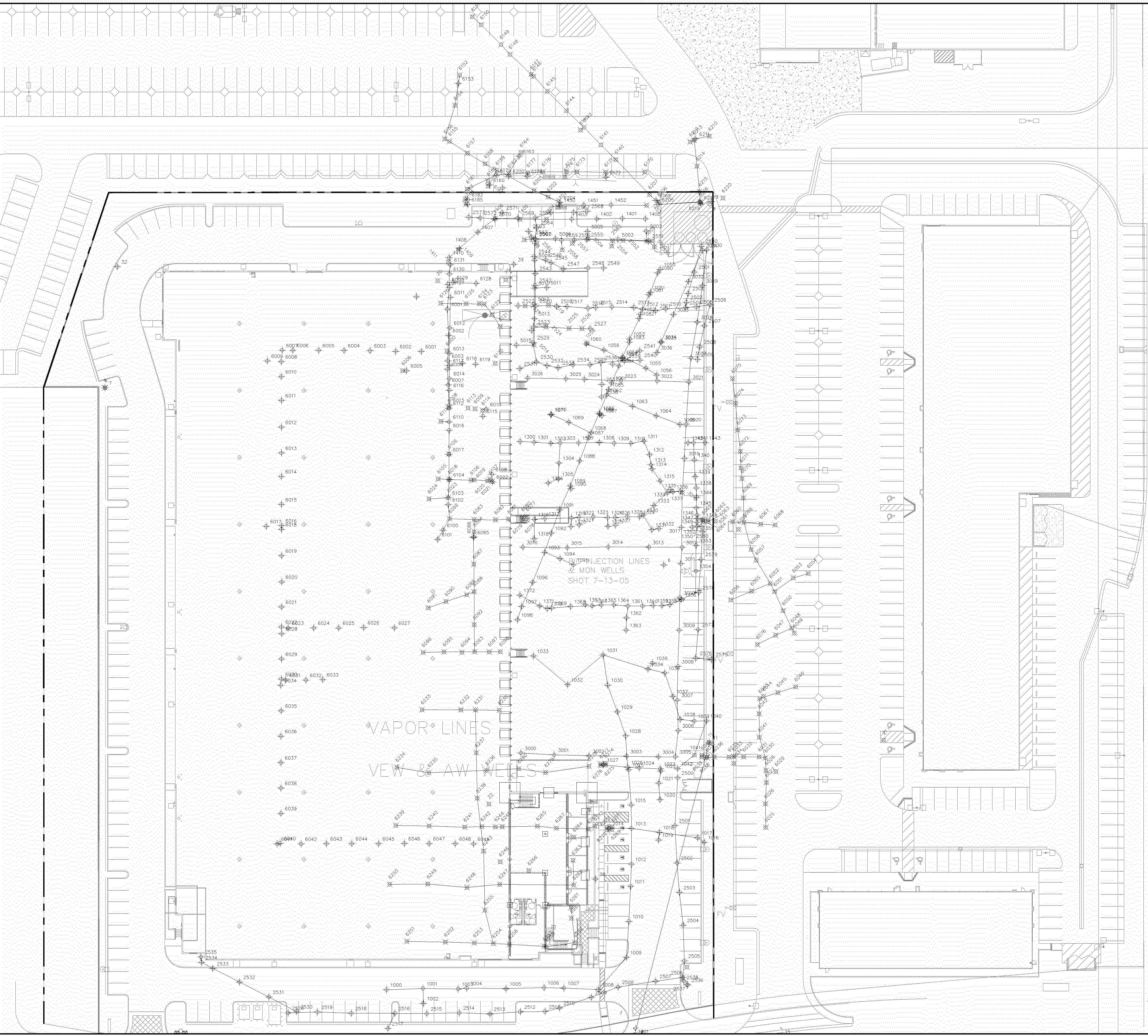
**8 November 2005**

**Field Data Report for the Lot 8 Phase V Amendment Well Installation Program  
Former C-6 Facility  
Los Angeles, California**

**Prepared By:  
Haley & Aldrich, Inc.  
9040 Friars Road, Suite 220  
San Diego, California 92108**

**16 February 2006**

**APPENDIX E**  
**TEM Survey Data**



**SURVEYOR SHOT NUMBERS, COORDINATES, AND SHOT DESCRIPTION**  
**Former Boeing C-6 Facility, Lot 8**  
**Los Angeles, California**

<b>Shot Number</b>	<b>Surveyors Description</b>	<b>X-Coordinate</b>	<b>Y-Coordinate</b>	<b>Elevation</b>
2	SPK\W	6469733.862	1769473.287	2.41
3	L/T	6470091.928	1769398.661	51.28
3	L/T	6470091.851	1769398.685	53.69
3	L/T	6470091.851	1769398.685	53.69
7	1\2 IR	6469921.25	1769971.472	56.43
7	1\2 IR	6469921.305	1769971.536	58.84
8	SET SCRIBE	6469920.5	1769459.425	52.95
9	SET IR	6470391.87	1770116.244	51.89
9	SET IR	6470391.958	1770116.2	54.3
10	FD N\TAG	6470331.924	1769468.303	52.79
11	60D	6470390.233	1769696.106	51.75
11	60D	6470390.225	1769696.062	54.16
11	60D	6470390.225	1769696.063	54.16
12	FD N\T GPS2	6470331.97	1769468.31	50.36
12	FD N\T GPS2	6470331.909	1769468.28	52.77
13	FD PKW GPS3	6469960.18	1769412.19	52.81
14	FD PK	6470038.371	1769424.752	53.43
15	FD GSPK\W	6470445.854	1769468.065	52.11
16	60D SET	6470296.916	1769644.077	55.28
20	60D	6470179.486	1770054.554	55.56
21	SET X	6470525.447	1769698.052	51.31
22	60D	6470219.179	1769648.342	55.32
32	SET X	6469930.82	1770065.512	57.72
35	SET X	6470361.525	1769426.525	52.79
35	SET X	6470361.525	1769426.526	52.79
38	SET 60D	6470301.872	1769590.249	57.91
39	60D	6470238.49	1770067.31	54.14
39	SET 60D	6470238.492	1770067.311	54.14
51	SET PK	6469503.2	1769452.182	53.72
70		6470232.29	1770055.399	55.5
1000	AW0134	6470139.842	1769504.246	54.76
1001	1"LINE	6470168.05	1769505.261	55.29
1002	AW0133	6470168.311	1769493.665	54.41
1003	1"LINE	6470195.313	1769504.885	55.56
1004	AW0132	6470202.065	1769505.518	55.19
1005	AW0131	6470232.424	1769505.106	55.02
1006	AW0130	6470261.974	1769505.88	55.2
1007	1"LINE	6470277.418	1769505.54	52.12
1008	AW0129	6470304.188	1769504.406	51.02
1009	1"LINE	6470325.863	1769529.381	51.93
1010	1"LINE	6470327.753	1769557.323	51.53
1011	1"LINE	6470329.172	1769584.541	51.49
1012	1"LINE	6470329.818	1769601.735	51.61
1013	1"LINE	6470329.741	1769629.466	51.29
1014	1"LINE	6470312.453	1769629.598	52.71
1015	AW0094	6470329.613	1769647.611	50.56
1016	AW0104	6470386.264	1769618.699	51.27
1017	1"LINE	6470381.097	1769622.226	51.26
1018	1"LINE	6470351.468	1769626.469	51.47
1019	AW0105	6470350.918	1769620.506	50.96

**SURVEYOR SHOT NUMBERS, COORDINATES, AND SHOT DESCRIPTION**  
**Former Boeing C-6 Facility, Lot 8**  
**Los Angeles, California**

<b>Shot Number</b>	<b>Surveyors Description</b>	<b>X-Coordinate</b>	<b>Y-Coordinate</b>	<b>Elevation</b>
1020	1"LINE	6470351.988	1769651.792	51.4
1021	AW0095	6470351.007	1769664.598	50.32
1022	1"LINE	6470352.525	1769674.086	51.21
1023	1"LINE	6470352.104	1769675.797	47.38
1024	1"LINE	6470335.783	1769676.489	46.74
1025	AW0096	6470327.548	1769675.01	50.28
1026	1"LINE	6470326.841	1769677.038	50.6
1027	1"LINE	6470307.923	1769678.888	51.42
1028	AW0085	6470325.249	1769701.31	51.02
1029	1"LINE	6470318.83	1769719.99	51.53
1030	AW0075	6470311.282	1769740.755	50.96
1031	AW0073	6470307.753	1769764.12	50.7
1032	AW0076	6470280.216	1769741.052	51.03
1033	AW0077	6470253.722	1769763.355	50.96
1034	AW0074C	6470342.636	1769753.186	49.03
1035	AW0074UB	6470346.067	1769757.86	50.01
1036	1"LINE	6470355.641	1769750.137	50.31
1037	1"LINE	6470361.886	1769732.014	49.85
1038	AW0084C	6470367.549	1769714.207	50.35
1039	TRENCH	6470378.484	1769712.851	50.61
1040	AW0083C	6470387.928	1769712.99	50.63
1041	1"LINE	6470378.634	1769686.423	50.35
1042	1"LINE	6470365.532	1769675.829	48.98
1050	3IN_PVC 7-05-05	6470352.115	1770063.506	51.11
1051	3IN_PVC	6470344.526	1770045.583	51.03
1052	3IN_PVC	6470336.696	1770028.691	50.97
1053	3IN_PVC	6470328.418	1770009.483	50.89
1054	3IN_PVC	6470323.036	1769995.532	50.76
1055	3IN_PVC END	6470340.929	1769986.853	49.87
1056	VEW-05	6470349.36	1769981.403	49.65
1057	3IN_PVC JPN1054	6470322.432	1769994.125	50.73
1058	3IN_PVC	6470308.515	1770000.811	50.69
1059	3IN_PVC END VEW-10A	6470295.314	1770005.928	49.94
1060	VEW-10B	6470294.773	1770005.647	50.01
1061	3IN_PVC JPN1057	6470314.49	1769975.396	50.67
1062	3IN_PVC	6470310.636	1769965.974	50.64
1063	3IN_PVC	6470330.545	1769957.222	50.53
1064	3IN_PVC	6470348.931	1769949.876	50.14
1065	3IN_PVC END VEW-06	6470367.354	1769943.017	49.07
1066	3IN_PVC JPN1062	6470305.156	1769951.038	50.5
1067	VEW-12	6470306.877	1769949.952	49.69
1068	3IN_PVC	6470298.377	1769936.548	50.43
1069	3IN_PVC	6470281.08	1769944.796	50.31
1070	3IN_PVC END VEW-11A	6470267.544	1769950.995	49.5
1071	VEW-11B	6470267.323	1769950.639	49.43
1080	3IN_PVC	6470350.183	1770060.761	51.32
1081	3IN_PVC	6470343.36	1770043.717	51.57
1082	3IN_PVC	6470335.746	1770025.34	51.4
1083	3IN_PVC	6470328.152	1770006.951	51.34
1084	3IN_PVC	6470320.018	1769988.568	51.13

**SURVEYOR SHOT NUMBERS, COORDINATES, AND SHOT DESCRIPTION**  
**Former Boeing C-6 Facility, Lot 8**  
**Los Angeles, California**

<b>Shot Number</b>	<b>Surveyors Description</b>	<b>X-Coordinate</b>	<b>Y-Coordinate</b>	<b>Elevation</b>
1085	3IN_PVC	6470312	1769970.125	51.16
1086	3IN_PVC	6470304.76	1769951.875	50.97
1087	3IN_PVC	6470296.512	1769933.049	50.92
1088	3IN_PVC	6470289.667	1769914.798	50.88
1089	3IN_PVC	6470282.366	1769895.494	50.84
1090	VEW-13AB	6470282.89	1769893.162	50.19
1091	3IN_PVC	6470274.084	1769876.866	50.8
1092	3IN_PVC	6470267.561	1769858.782	50.47
1093	3IN_PVC	6470262.479	1769843.875	50.31
1094	3IN_PVC	6470274.331	1769838.919	50.12
1095	3IN_PVC END VEW14AB	6470284.636	1769834.143	49.67
1096	3IN_PVC JPN1093	6470253.128	1769820.565	50.35
1097	3IN_PVC	6470244.668	1769801.7	50.11
1098	3IN_PVC END VEW-29	6470241.38	1769791.467	49.31
1300	AW0046B	6470243.432	1769929.811	51.45
1301	1" BIO INJECTION	6470254.202	1769929.329	52.29
1302	AWOO44B	6470267.122	1769928.478	51.69
1303	AWOO44C	6470274.463	1769928.772	50.89
1304	1" _BIO_INJECTION	6470273.554	1769913.151	52.04
1305	AW0045B	6470273.004	1769900.754	51.3
1306	AW0045C	6470265.122	1769897.592	49.91
1307	1" _BIO_INJECTION	6470288.718	1769928.795	51.56
1308	AW0043B	6470304.854	1769929.126	50.66
1309	AW0043C	6470316.301	1769928.529	50.26
1310	1" _BIO_INJECTION	6470329.262	1769928.426	50.79
1311	AW0042UB	6470339.494	1769930.128	49.87
1312	1" _BIO_INJECTION	6470343.847	1769919.649	51.14
1313	1" _BIO_INJECTION	6470344.942	1769911.734	51.01
1314	AW0042C	6470345.751	1769908.505	50.23
1315	1" _BIO_INJECTION	6470352.011	1769899.211	50.53
1316	1" _BIO_INJECTION	6470254.465	1769869.487	49.91
1317	1" _BIO_INJECTION	6470262.604	1769870.009	51.72
1318	AW0052C	6470254.281	1769854.397	51.15
1319	1" _BIO_INJECTION	6470283.273	1769870.416	51.77
1320	AW0055UB	6470282.833	1769863.89	50.67
1321	AW0055C	6470289.126	1769865.163	50.75
1322	1" _BIO_INJECTION	6470289.108	1769870.914	51.41
1323	1" _BIO_INJECTION	6470300.122	1769871.237	51.17
1324	1" _BIO_INJECTION	6470311.306	1769870.862	51.2
1325	AW0054UB	6470311.552	1769864.012	49.87
1326	1" _BIO_INJECTION	6470317.208	1769870.793	50.9
1327	AW0054C	6470317.282	1769864.974	50.25
1328	1" _BIO_INJECTION	6470326.626	1769871.49	50.41
1329	1" _BIO_INJECTION	6470336.104	1769871.369	49.89
1330	1" _BIO_INJECTION	6470338.798	1769872.745	49.69
1331	AW0053UB	6470345.686	1769861.289	49.05
1332	AW0053C	6470351.033	1769862.292	48.91
1333	1" _BIO_INJECTION	6470347.309	1769880.104	49.84
1334	1" _BIO_INJECTION	6470357.558	1769889.957	50.18
1335	AW0052C	6470359.743	1769892.585	50.15

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1336	1"_BIO_INJECTION	6470361.882	1769890.913	50.09
1337	BOT TRENCH	6470367.534	1769891.174	46.87
1338	BOT TRENCH	6470380.076	1769893.907	47.8
1339	BOT TRENCH	6470379.138	1769902.58	51.39
1340	BOT TRENCH	6470378.583	1769915.514	51.18
1341	BOT TRENCH	6470378.013	1769928.983	51.15
1342	AW0041UB	6470373.717	1769928.817	50.33
1343	AW0041C	6470386.926	1769928.95	50.76
1344	BOT TRENCH	6470380.368	1769886.628	46.85
1345	1"_BIO_INJECTION	6470380.157	1769878.38	51.33
1346	1"_BIO_INJECTION	6470380.636	1769872.836	51.16
1347	1"_BIO_INJECTION	6470380.969	1769870.193	49.65
1348	EX BOX	6470384.718	1769868.88	47.68
1349	1"_BIO_INJECTION	6470380.456	1769867.186	50.24
1350	1"_BIO_INJECTION	6470380.809	1769864.171	51.06
1351	AW0051C	6470383.719	1769863.957	50.37
1352	AW0051UB	6470376.999	1769863.428	50.63
1353	1"_BIO_INJECTION	6470379.94	1769849.22	51.49
1354	1"_BIO_INJECTION	6470379.77	1769829.25	51.46
1355	AW0062C	6470379.495	1769812.763	50.76
1356	1"_BIO_INJECTION	6470368.364	1769807.131	51.61
1357	AW0063UB	6470359.527	1769803.158	50.46
1358	1"_BIO_INJECTION	6470353.406	1769802.428	51.57
1359	AW0063C	6470346.678	1769802.598	49.83
1360	1"_BIO_INJECTION	6470338.363	1769802.138	50.77
1361	1"_BIO_INJECTION	6470327.061	1769802.167	51.12
1362	1"_BIO_INJECTION	6470325.869	1769792.971	51.03
1363	AW0064UB	6470325.642	1769783.375	50.08
1364	1"_BIO_INJECTION	6470316.105	1769802.978	51.42
1365	AW0065C	6470306.403	1769802.98	50.7
1366	1"_BIO_INJECTION	6470299.301	1769802.344	51.35
1367	AW0065UB	6470293.9	1769803.24	50.89
1368	1"_BIO_INJECTION	6470282.626	1769801.779	51.51
1369	1"_BIO_INJECTION	6470267.86	1769800.6	51.51
1370	AW0066UB	6470264.414	1769800.1	50.57
1371	1"_BIO_INJECTION	6470258.561	1769802.173	51.9
1372	AW0067UB	6470243.207	1769810.6	51.31
1400	3IN_PVC	6470340.562	1770102.748	51.07
1401	.	6470331.97	1769468.31	.
1401	3IN_PVC	6470322.664	1770103.015	51.46
1402	3IN_PVC	6470302.886	1770102.643	51.46
1403	3IN_PVC	6470283.402	1770102.438	51.5
1404	3IN_PVC	6470263.835	1770102.325	51.56
1405	3IN_PVC	6470243.361	1770102.329	51.67
1406	3IN_PVC	6470224.058	1770102.999	51.9
1407	3IN_PVC	6470210.657	1770092.326	51.97
1408	3IN_PVC	6470196.356	1770079.538	52.01
1409	3IN_PVC	6470195.466	1770079.044	53.54
1410	3IN_PVC	6470188.316	1770072.53	53.8
1411	3IN_PVC END	6470187.897	1770069.438	53.98

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1450	3IN VAPOR-8EA	6470274.41	1770113.454	50.26
1451	3IN VAPOR-8EA	6470292.857	1770113.342	50.42
1452	3IN VAPOR-8EA	6470313.988	1770113.443	50.84
1453	3IN VAPOR-8EA	6470341.531	1770113.08	51.27
2500	AW9UB	6470383.934	1770081.48	50.42
2500	AW9UB	6470383.934	1770081.48	50.42
2500	CL TRENCH	6470365.636	1769668.789	49.31
2501	1IN-BIO	6470378.513	1770061.353	50.49
2501	1IN-BIO	6470378.513	1770061.353	50.49
2501	ELEC STUB FUTURE	6470363.535	1769631.762	49.24
2502	1IN-BIO	6470373.778	1770044.741	50.18
2502	1IN-BIO	6470373.778	1770044.741	50.18
2502	CL TRENCH	6470365.128	1769602.785	49.59
2503	1IN-BIO	6470372.295	1770037.832	48.06
2503	1IN-BIO	6470372.295	1770037.832	48.06
2503	CL TRENCH	6470367.008	1769579.848	49.68
2504	1IN-BIO	6470371.688	1770033.811	48.01
2504	1IN-BIO	6470371.688	1770033.811	48.01
2504	CL TRENCH	6470369.864	1769554.367	49.46
2505	1IN-BIO	6470380.155	1770034.365	48.12
2505	1IN-BIO	6470380.155	1770034.365	48.12
2505	CL TRENCH	6470370.796	1769526.736	50.08
2506	AW20UB	6470390.74	1770036.001	50.45
2506	AW20UB	6470390.74	1770036.001	50.45
2506	CL TRENCH	6470369.628	1769513.785	50.49
2507	1IN-BIO	6470386.34	1770019.641	51.9
2507	1IN-BIO	6470386.34	1770019.641	51.9
2507	CL TRENCH	6470348.54	1769510.875	49.6
2508	1IN-BIO	6470382.739	1770003.203	51.41
2508	1IN-BIO	6470382.739	1770003.203	51.41
2508	CL TRENCH	6470319.353	1769506.347	51.92
2509	AW29UB	6470380.927	1769993.586	50.95
2509	AW29UB	6470380.927	1769993.586	50.95
2509	CL TRENCH	6470298.562	1769498.42	51.7
2510	1IN-BIO JPN2504	6470356.307	1770032.836	50.62
2510	1IN-BIO JPN2504	6470356.307	1770032.836	50.62
2510	CL TRENCH	6470273.921	1769490.119	51.58
2511	AW17UB	6470348.479	1770031.328	49.96
2511	AW17UB	6470348.479	1770031.328	49.96
2511	4" SAN SEWER STUB	6470262.713	1769487.405	51.17
2512	1IN-BIO	6470338.357	1770032.654	51.52
2512	1IN-BIO	6470338.357	1770032.654	51.52
2512	FUTURE WELL BOX	6470243.489	1769487.192	52.77
2513	AW27B	6470331.676	1770033.899	50.47
2513	AW27B	6470331.676	1770033.899	50.47
2513	CL TRENCH	6470220.017	1769485.482	53.79
2514	1IN-BIO	6470314.607	1770034.289	51.89
2514	1IN-BIO	6470314.607	1770034.289	51.89
2514	CL TRENCH	6470196.177	1769486.35	53.63
2515	AW23C	6470301.959	1770033.979	51.01

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2515	AW23C	6470301.959	1770033.979	51.01
2515	CL TRENCH	6470170.96	1769485.772	53.46
2516	AW23B	6470296.069	1770033.276	51.06
2516	AW23B	6470296.069	1770033.276	51.06
2516	CL TRENCH	6470146.214	1769485.966	54.02
2517	1IN-BIO	6470279.818	1770034.713	51.81
2517	1IN-BIO	6470279.818	1770034.713	51.81
2517	3" WATER LINE	6470140.867	1769474.261	53.19
2518	AW25C	6470271.643	1770034.869	51.32
2518	AW25C	6470271.643	1770034.869	51.32
2518	CL TRENCH	6470112.459	1769486.026	54.36
2519	AW25B	6470265.543	1770035.634	51.27
2519	AW25B	6470265.543	1770035.634	51.27
2519	CL TRENCH	6470086.115	1769486.982	54.16
2520	1IN-BIO	6470255.211	1770034.977	51.42
2520	1IN-BIO	6470255.211	1770034.977	51.42
2520	CL TRENCH	6470063.397	1769486.296	53.97
2521	AW26B	6470247.255	1770035.17	51.19
2521	AW26B	6470247.255	1770035.17	51.19
2522	AW26C	6470241.871	1770035.217	50.89
2522	AW26C	6470241.871	1770035.217	50.89
2523	1IN-BIO JPN2520	6470253.809	1770018.785	51.47
2523	1IN-BIO JPN2520	6470253.809	1770018.785	51.47
2524	AW87C	6470263.608	1770018.778	51.28
2524	AW87C	6470263.608	1770018.778	51.28
2525	1IN-BIO	6470281.38	1770017.622	51.57
2525	1IN-BIO	6470281.38	1770017.622	51.57
2526	AW86B	6470291.397	1770017.445	50.72
2526	AW86B	6470291.397	1770017.445	50.72
2527	AW86B	6470297.705	1770017.411	51.21
2527	AW86B	6470297.705	1770017.411	51.21
2528	AW87B	6470252.299	1770016.126	51.35
2528	AW87B	6470252.299	1770016.126	51.35
2529	1IN-BIO JPN2523	6470253.374	1770006.592	51.28
2529	1IN-BIO JPN2523	6470253.374	1770006.592	51.28
2530	AW34B	6470256.072	1769991.58	51.34
2530	AW34B	6470256.072	1769991.58	51.34
2530	4" _ELEC	6470070.036	1769487.315	54.49
2531	AW34C	6470243.112	1769986.388	51.24
2531	AW34C	6470243.112	1769986.388	51.24
2531	4" _ELEC	6470048.535	1769498.625	54.78
2532	1IN-BIO JPN2530	6470264.245	1769988.736	51.78
2532	1IN-BIO JPN2530	6470264.245	1769988.736	51.78
2532	4" _ELEC	6470025.619	1769510.273	54.71
2533	AW28C	6470272.937	1769987.055	50.95
2533	AW28C	6470272.937	1769987.055	50.95
2533	4" _ELEC	6470004.98	1769520.804	54.64
2534	AW28B	6470284.368	1769989.464	51.16
2534	AW28B	6470284.368	1769989.464	51.16
2534	4" _ELEC	6469996.234	1769525.521	54.55

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2535	1IN-BIO	6470297.537	1769989.469	51.51
2535	1IN-BIO	6470297.537	1769989.469	51.51
2535	4" _ELEC	6469995.773	1769529.75	54.54
2536	AW32C	6470306.129	1769991.244	51.03
2536	AW32C	6470306.129	1769991.244	51.03
2536	4" HDP LINE TERMANI	6470373.426	1769508.031	51.07
2537	1IN-BIO	6470306.833	1769974.15	51.34
2537	1IN-BIO	6470306.833	1769974.15	51.34
2537	4" HDP LINE TERMANI	6470372.827	1769508.125	50.99
2538	AW37C	6470306.591	1769964.451	50.37
2538	AW37C	6470306.591	1769964.451	50.37
2538	8" HDP LINE TERMANI	6470370.386	1769511.019	51.15
2539	1IN-BIO JPN2536	6470324.135	1769992.502	51.47
2539	1IN-BIO JPN2536	6470324.135	1769992.502	51.47
2540	AW31C	6470336.428	1769992.964	50.65
2540	AW31C	6470336.428	1769992.964	50.65
2541	AW30B	6470336.258	1770000.121	50.88
2541	AW30B	6470336.258	1770000.121	50.88
2542	1IN-BIO JPN2520	6470255.139	1770051.06	51.68
2542	1IN-BIO JPN2520	6470255.139	1770051.06	51.68
2543	1IN-BIO	6470255.257	1770060.196	51.65
2543	1IN-BIO	6470255.257	1770060.196	51.65
2544	1IN-BIO	6470254.344	1770073.408	51.64
2544	1IN-BIO	6470254.344	1770073.408	51.64
2545	1IN-BIO	6470267.466	1770068.585	51.73
2545	1IN-BIO	6470267.466	1770068.585	51.73
2546	AW21C	6470263.193	1770070.797	51.22
2546	AW21C	6470263.193	1770070.797	51.22
2547	AW21B	6470276.767	1770063.837	51.15
2547	AW21B	6470276.767	1770063.837	51.15
2548	1IN-BIO	6470296.039	1770064.5	51.7
2548	1IN-BIO	6470296.039	1770064.5	51.7
2549	AW16B	6470307.995	1770064.449	51.11
2549	AW16B	6470307.995	1770064.449	51.11
2550	AW10UB	6470347.573	1770081.088	51.2
2550	AW10UB	6470347.573	1770081.088	51.2
2551	1IN-BIO	6470342.807	1770085.4	52.07
2551	1IN-BIO	6470342.807	1770085.4	52.07
2552	1IN-BIO	6470323.235	1770085.914	52.03
2552	1IN-BIO	6470323.235	1770085.914	52.03
2553	1IN-BIO	6470315.167	1770085.878	51.82
2553	1IN-BIO	6470315.167	1770085.878	51.82
2554	AW12B	6470314.531	1770081.506	51.29
2554	AW12B	6470314.531	1770081.506	51.29
2555	1IN-BIO JPN2553	6470295.142	1770086.602	51.59
2555	1IN-BIO JPN2553	6470295.142	1770086.602	51.59
2556	1IN-BIO	6470285.397	1770086.15	51.47
2556	1IN-BIO	6470285.397	1770086.15	51.47
2557	AW11B	6470283.942	1770083.675	50.83
2557	AW11B	6470283.942	1770083.675	50.83

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2558	AW11C	6470276.139	1770078.586	50.56
2558	AW11C	6470276.139	1770078.586	50.56
2559	1IN-BIO JPN2556	6470275.458	1770086.158	51.33
2559	1IN-BIO JPN2556	6470275.458	1770086.158	51.33
2560	1IN-BIO JPN2544	6470255.033	1770086.88	51.47
2560	1IN-BIO JPN2544	6470255.033	1770086.88	51.47
2561	AW13B	6470256.396	1770084.048	51.56
2561	AW13B	6470256.396	1770084.048	51.56
2562	1IN-BIO	6470252.084	1770088.502	51.3
2562	1IN-BIO	6470252.084	1770088.502	51.3
2563	AW13C	6470250.013	1770092.986	51.09
2563	AW13C	6470250.013	1770092.986	51.09
2564	1IN-BIO JPN2560	6470256.254	1770095.836	51.39
2564	1IN-BIO JPN2560	6470256.254	1770095.836	51.39
2565	1IN-BIO	6470255.072	1770103.499	51.74
2565	1IN-BIO	6470255.072	1770103.499	51.74
2566	AW07B	6470267.294	1770107.507	50.4
2566	AW07B	6470267.294	1770107.507	50.4
2567	1IN-BIO	6470284.689	1770107.664	51.52
2567	1IN-BIO	6470284.689	1770107.664	51.52
2568	AW6B	6470295.368	1770108.609	50.82
2568	AW6B	6470295.368	1770108.609	50.82
2569	1IN-BIO JPN2565	6470241.586	1770103.295	51.85
2569	1IN-BIO JPN2565	6470241.586	1770103.295	51.85
2570	1IN-BIO	6470223.621	1770102.672	52.03
2570	1IN-BIO	6470223.621	1770102.672	52.03
2571	AW8B	6470229.443	1770107.423	51.61
2571	AW8B	6470229.443	1770107.423	51.61
2572	1IN-BIO	6470212.435	1770103.46	51.87
2572	1IN-BIO	6470212.435	1770103.46	51.87
2573	1IN-BIO END	6470203.489	1770103.989	49.3
2573	1IN-BIO END	6470203.489	1770103.989	49.3
2574	AW32B	6470315.153	1769989.981	51
2574	AW32B	6470315.153	1769989.981	51
2575	AW72C	6470391.772	1769760.658	50.38
2576	1IN-BIO	6470379.675	1769761.598	49.99
2577	1IN-BIO	6470381.502	1769783.925	50.62
2578	1IN-BIO	6470381.972	1769812.685	51.35
2579	1IN-BIO	6470383.827	1769838.319	51.45
2580	1IN-BIO END	6470384.861	1769859.79	51.51
3000	FUT WELL LAT	6470244.025	1769688.044	52.95
3001	4"PIPE	6470269.782	1769686.588	52.33
3002	4"PIPE	6470296.771	1769685.892	51.82
3003	4"PIPE	6470325.997	1769685.512	50.79
3004	4"PIPE	6470350.836	1769685.078	50.34
3005	4"PIPE AT TEE	6470363.814	1769685.138	50.49
3006	4"PIPE	6470366.067	1769705.527	50.09
3007	4"PIPE	6470365.318	1769729.105	50.34
3008	4"PIPE	6470365.818	1769755.195	49.97
3009	4"PIPE	6470366.819	1769783.326	50.44

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3010	4"PIPE	6470367.332	1769808.696	50.28
3011	4"PIPE	6470368.085	1769834.954	50.24
3012	4"PIPE	6470369.016	1769847.707	50.61
3013	4"PIPE	6470343.32	1769847.826	50.6
3014	FUT WELL CENT LAT	6470311.771	1769848.033	51.36
3015	FUT WELL CENT LAT	6470280.019	1769847.375	51.83
3016	FUT WELL CENT LAT	6470245.498	1769847.781	52.44
3017	4"PIPE	6470368.541	1769863.213	50.52
3018	4"PIPE	6470369.189	1769890.282	50.53
3019	4"PIPE	6470370.887	1769916.746	50.81
3020	4"PIPE	6470372.222	1769943.293	50.4
3021	4"PIPE	6470374.322	1769976.027	50.44
3022	4"PIPE	6470349.659	1769976.985	50.9
3023	4"PIPE	6470321.534	1769976.934	51.43
3024	4"PIPE	6470293.215	1769978.17	51.07
3025	FUT WELL N LAT	6470278.886	1769978.528	51.36
3026	FUT WELL N LAT	6470249.3	1769978.995	51.78
3027	4"PIPE	6470375.963	1769994.649	50.47
3028	4"PIPE	6470380.802	1770022.551	50.63
3029	4"PIPE	6470384.914	1770050.865	51.52
3030	4"PIPE	6470388.195	1770078.574	51.31
3031	4"STORM	6470384.938	1770078.173	51.97
3032	4"STORM	6470373.866	1770054.15	52
3033	4"STORM	6470362.29	1770028.443	51.18
3034	4"STORM	6470352.865	1770007.384	51.08
3035	4"STORM	6470352.784	1770006.709	51.88
3036	4"STORM END	6470349.695	1769998.946	51.9
5000	3"VES_LINE	6470345.698	1770085.538	50.91
5001	3"VES_LINE	6470341.656	1770085.417	50.95
5002	VIEW-7	6470341.218	1770093.186	50.35
5003	3"VES_LINE JPN5001	6470319.276	1770086.543	50.69
5004	3"VES_LINE	6470296.144	1770087.068	50.5
5005	VIEW-9	6470295.588	1770092.911	50.03
5006	3"VES_LINE JPN5004	6470270.725	1770087.311	50.36
5007	3"VES_LINE	6470255.165	1770087.311	50.18
5008	VIEW-21	6470246.652	1770086.41	49.37
5009	3"VES_LINE JPN5007	6470254.679	1770070.608	50.06
5010	3"VES_LINE	6470254.53	1770049.005	50.02
5011	VIEW-23	6470263.944	1770049.405	49.07
5012	3"VES_LINE JPN5010	6470254.319	1770036.647	49.99
5013	3"VES_LINE	6470254.56	1770025.232	49.8
5014	3"VES_LINE	6470254.311	1770004.719	49.79
5015	VIEW-22	6470240.481	1770004.69	48.73
6000	LOWER_VIEW	6470187.343	1770051.83	52.78
6000	TOP 4" TEE	6470186.7	1770000.131	53.44
6001	LOWER_VIEW	6470186.941	1770032.61	52.57
6001	TOP_4"_PIPE	6470166.719	1769999.712	53.31
6002	LOWER_VIEW	6470187.965	1770012.192	52.5
6002	TOP_4"_PIPE	6470146.864	1769999.852	53.1
6003	LOWER_VIEW	6470187.308	1769992.425	52.37

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6003	TOP_4"_PIPE	6470127.003	1770000.331	52.97
6004	LOWER_VEW AP	6470186.97	1769985.93	52.24
6004	TOP_4"_PIPE	6470106.762	1770000.516	52.91
6005	LOWER_VEW	6470155.273	1769984.807	51.77
6005	TOP_4"_PIPE	6470087.118	1770000.64	52.73
6006	TOP_4"_PIPE	6470067.027	1770000.675	52.71
6006	VEW27	6470152.325	1769984.802	51.21
6007	LOWER_VEW	6470187.601	1769973.762	51.88
6007	TOP_4"_PIPE AP	6470058.8	1770000.67	52.67
6008	LOWER_VEW AP	6470188.097	1769955.839	51.55
6008	TOP_4"_PIPE TEE	6470058.147	1769991.808	52.66
6009	LOWER_VEW	6470208.408	1769955.086	51.25
6009	TOP_4"_PIPE VMW05	6470047.25	1769992.394	52.55
6010	TOP_4"_PIPE	6470058.133	1769980.19	52.63
6010	VEW25B	6470216.962	1769954.869	50.1
6011	TOP_4"_PIPE	6470058.273	1769961.716	52.55
6011	UPPER_VEW	6470189.23	1770041.725	53.8
6012	TOP_4"_PIPE	6470058.208	1769940.943	52.41
6012	UPPER_VEW	6470188.889	1770018.038	53.59
6013	TOP_4"_PIPE	6470058.229	1769920.951	52.26
6013	UPPER_VEW	6470188.382	1769998.256	53.37
6014	TOP_4"_PIPE	6470058.175	1769902.703	52.17
6014	UPPER_VEW	6470188.546	1769978.68	53.07
6015	TOP_4"_PIPE	6470058.281	1769880.974	52.07
6015	UPPER_VEW	6470188.342	1769958.12	52.43
6016	TOP_4"_PIPE TEE	6470058.358	1769864.553	52.04
6016	UPPER_VEW	6470188.346	1769938.542	51.95
6017	TOP_4"_PIPE VMW04	6470046.428	1769863.958	51.27
6017	UPPER_VEW	6470188.156	1769919.756	51.65
6018	TOP_4"_PIPE	6470058.263	1769861.629	52.03
6018	UPPER_VEW	6470188.508	1769900.411	51.55
6019	TOP_4"_PIPE	6470058.333	1769841.165	51.91
6019	UPPER_VEW	6470207.75	1769900.139	51.36
6020	TOP_4"_PIPE	6470058.396	1769820.832	51.82
6020	UPPER_VEW	6470218.123	1769899.21	50.94
6021	TOP_4"_PIPE	6470058.344	1769801.436	51.77
6021	VEW26A	6470221.773	1769898.912	50.54
6022	TOP_4"_PIPE TEE	6470058.211	1769785.909	51.64
6022	VEW26B	6470221.953	1769898.579	50.59
6023	TOP_4"_PIPE	6470063.412	1769785.211	51.53
6023	UPPER_VEW AP	6470187.694	1769886.224	51.33
6024	TOP_4"_PIPE	6470083.359	1769785.16	51.39
6024	VEW28	6470172.757	1769885.177	50.34
6025	AW103C	6470433.99	1769630.211	46.04
6025	TOP_4"_PIPE	6470102.641	1769785.136	51.26
6026	1"LINE	6470433.714	1769648.591	47.31
6026	TOP_4"_PIPE	6470122.014	1769785.403	51.17
6027	1"LINE	6470434.457	1769665.105	47.14
6027	TOP_4"_PIPE VMW07	6470145.846	1769785.203	50.38
6028	1"LINE	6470434.257	1769674.479	47.22

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6028	TOP_4"_PIPE	6470058.384	1769780.688	51.63
6029	AW92	6470441.88	1769673.556	46.51
6029	TOP_4"_PIPE	6470058.293	1769761.04	51.55
6030	1"LINE	6470433.744	1769684.255	47.33
6030	TOP_4"_PIPE TEE	6470058.185	1769745.395	51.45
6031	1"LINE	6470428.955	1769685.086	47.05
6031	TOP_4"_PIPE	6470061.372	1769744.684	51.28
6032	1"LINE	6470416.765	1769684.975	46.63
6032	TOP_4"_PIPE	6470077.214	1769744.63	51.04
6033	1"LINE	6470409.16	1769685.169	46.72
6033	TOP_4"_PIPE VMW03	6470090.292	1769745.018	50.41
6034	AW93C	6470409.227	1769679.916	45.47
6034	TOP_4"_PIPE	6470057.768	1769740.579	51.41
6035	1"LINE	6470405.477	1769684.838	46.69
6035	TOP_4"_PIPE	6470058.048	1769720.791	51.32
6036	1"LINE	6470394.158	1769685.037	46.41
6036	TOP_4"_PIPE	6470057.913	1769701.103	51.2
6037	FORM	6470388.134	1769684.762	47.45
6037	TOP_4"_PIPE	6470057.828	1769680.515	51.1
6038	FORM	6470388.353	1769684.504	47.04
6038	TOP_4"_PIPE	6470057.884	1769660.781	51.02
6039	FORM	6470384.378	1769684.873	47.07
6039	TOP_4"_PIPE	6470057.821	1769641.154	50.97
6040	FORM	6470384.479	1769686.312	47.09
6040	TOP_4"_PIPE TEE	6470057.128	1769617.96	50.51
6041	FORM	6470429.041	1769700.265	47.09
6041	TOP_4"_PIPE VMV02	6470054.954	1769617.44	50.19
6042	1"LINE	6470428.825	1769718.477	46.87
6042	TOP_4"_PIPE	6470073.494	1769617.497	50.49
6043	AW82C	6470429.284	1769730.317	45.55
6043	TOP_4"_PIPE	6470093.074	1769617.644	50.33
6044	1"LINE	6470432.252	1769731.958	46.34
6044	TOP_4"_PIPE	6470112.786	1769617.683	50.18
6045	1"LINE	6470443.403	1769734.888	47.09
6045	TOP_4"_PIPE	6470133.581	1769617.637	50.1
6046	AW81	6470457.15	1769739.374	46.3
6046	TOP_4"_PIPE	6470153.654	1769617.802	50.02
6047	1"LINE	6470441.625	1769779.421	47.06
6047	TOP_4"_PIPE	6470172.795	1769617.697	49.87
6048	1"LINE	6470454.246	1769784.998	46.95
6048	TOP_4"_PIPE	6470193.045	1769617.591	49.77
6049	AW70C	6470456.185	1769781.019	46.39
6049	TOP_4"_PIPE VMW01	6470207.338	1769617.448	49.02
6050	1"LINE	6470447.533	1769798.483	46.93
6051	1"LINE	6470440.856	1769813.347	47.29
6052	AW60C	6470437.543	1769819.561	45.59
6053	1"LINE	6470455.417	1769823.946	46.52
6054	AW59C	6470466.953	1769827.416	45.43
6055	1"LINE	6470422.974	1769813.656	46.89
6056	AW61C	6470406.821	1769806.843	45.82

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6057	1"LINE	6470426.709	1769837.597	46.27
6058	1"LINE	6470422.69	1769846.01	43.36
6059	AW50C	6470412.827	1769861.56	45.18
6060	1"LINE	6470408.387	1769867.585	45.28
6061	1"LINE	6470394.989	1769867.892	44.49
6062	FORM	6470389.241	1769869	45.38
6063	FORM	6470389.195	1769867.644	45.36
6064	FORM	6470385.507	1769867.841	45.38
6065	FORM	6470385.248	1769869.047	45.36
6066	1"LINE	6470417.159	1769867.054	45.25
6067	1"LINE	6470430.061	1769865.694	46.21
6068	AW49C	6470441.312	1769865.01	45.17
6069	1"LINE	6470416.653	1769885.968	45.85
6070	1"LINE	6470415.578	1769901.026	45.86
6071	AW40C	6470414.721	1769909.315	44.66
6072	1"LINE	6470414.299	1769922.219	46.29
6073	1"LINE	6470412.258	1769938.737	46.06
6074	1"LINE	6470410.543	1769959.476	46.69
6075	AW24UB	6470408.218	1769978.757	45.09
6076	AW71C	6470427.483	1769772.253	45.75
6077	TOP BOX	6470248.805	1769871.56	49.38
6078	TOP BOX	6470248.95	1769868.727	49.47
6079	TOP BOX	6470245.336	1769868.735	49.41
6080	TOP BOX	6470245.147	1769871.453	49.39
6081	3/4" PIPE	6470234.434	1769869.642	48.69
6082	3/4" PIPE	6470224.33	1769868.997	53.43
6083	3/4" PIPE AP	6470207.887	1769869.197	53.61
6084	3/4" PIPE	6470207.818	1769859.662	53.75
6085	3/4" PIPE	6470207.144	1769855.528	53.04
6086	AW57UB	6470207.468	1769855.709	51.9
6087	3/4" PIPE	6470207.553	1769834.623	53.54
6088	3/4" PIPE AP	6470207.77	1769813.221	53.55
6089	AW68UB	6470201.953	1769810.89	52.95
6090	3/4"PIPE	6470185.909	1769805.611	54.24
6091	AW69UB	6470172.199	1769800.657	52.97
6092	3/4" PIPE	6470207.808	1769787.558	53.66
6093	3/4" PIPE	6470208.135	1769766.622	53.77
6094	AW79	6470198.297	1769766.11	53.09
6095	3/4"PIPE	6470184.32	1769766.518	54.08
6096	AW80	6470168.126	1769766.074	53.1
6097	3/4"PIPE	6470219.443	1769766.52	53.79
6098	AW78	6470228.084	1769766.601	52.81
6099	3/4"PIPE	6470188.713	1769869.925	53.47
6100	3/4"PIPE	6470183.588	1769860.98	53.72
6101	AW58	6470179.478	1769853.815	53.01
6102	3/4PIPE	6470187.712	1769880.825	53.53
6103	3/4PIPE	6470187.682	1769886.137	52.5
6104	3/4PIPE	6470188.399	1769900.208	53.08
6105	AW48	6470179.935	1769900.754	52.18
6106	3/4PIPE	6470205.51	1769899.763	52.91

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6107	3\4PIPE	6470219.861	1769900.489	53.15
6108	AW47	6470221.442	1769904.392	52.58
6109	3\4PIPE	6470188.173	1769920.136	53.88
6110	3\4PIPE AP	6470188.318	1769945.106	53.87
6111	AW39	6470181.988	1769945.45	52.58
6112	3\4PIPE AP	6470188.344	1769955.864	53.52
6113	3\4PIPE	6470203.028	1769955.749	53.64
6114	3\4PIPE	6470214.319	1769953.82	53.35
6115	AW38	6470214.542	1769949.513	52.79
6116	3\4PIPE	6470188.479	1769969.625	53.88
6117	3\4PIPE AP	6470188.269	1769988.846	53.69
6118	AW36	6470198.57	1769990.543	53.21
6119	3\4PIPE	6470208.857	1769989.85	53.38
6120	AW35	6470224.091	1769990.413	52.62
6121	AW88	6470227.938	1770019.065	53.04
6122	3\4PIPE	6470221.782	1770028.492	53.84
6123	AW22B	6470215.664	1770036.447	52.32
6124	AW22C	6470211.818	1770036.82	52.72
6125	3\4PIPE	6470201.458	1770036.789	53.75
6126	AW120	6470181.917	1770037.113	52.57
6127	HIGH PT VES	6470188.488	1770049.496	53.42
6128	VEW22	6470209.266	1770052.571	51.95
6129	VEW22 TRENCH	6470191.142	1770053.352	52.52
6130	FOOTING XING	6470188.51	1770059.926	52.19
6131	SE COR VAULT	6470189.21	1770067.069	52.92
6140	4" PIPE	6470317.616	1770148.637	45.61
6141	4" PIPE	6470306.055	1770160.099	45.56
6142	4" PIPE	6470293.02	1770173.622	45.38
6143	VEW8	6470290.263	1770171.628	44.45
6144	4" PIPE	6470279.516	1770186.636	45.31
6145	4" PIPE	6470264.577	1770201.605	45.05
6146	4" PIPE	6470253.888	1770213.229	44.89
6147	VEW16	6470251.944	1770214.881	44.46
6148	4" PIPE	6470235.573	1770230.24	44.35
6149	CONC FOOTING	6470228.617	1770237.923	45.72
6150	CONC FOOTING	6470213.289	1770253.266	45.55
6151	VEW15	6470206.342	1770259.549	43.77
6152	VEW17	6470196.61	1770214.15	42.06
6153	4" PIPE	6470195.51	1770207.699	43.22
6154	4" PIPE	6470192.868	1770190.754	43.43
6155	4" PIPE AP	6470188.69	1770162.772	43.66
6156	VEW18	6470185.011	1770164.66	43.09
6157	4" PIPE	6470202.511	1770153.601	43.83
6158	4" PIPE	6470216.328	1770145.434	44.05
6159	4" PIPE AP	6470225.289	1770140.287	44.1
6160	4" PIPE	6470219.551	1770129.033	43.64
6161	VEW20	6470218.752	1770127.999	43.05
6162	4" PIPE AP	6470234.533	1770137.973	44.22
6163	4" PIPE	6470242.579	1770151.314	43.77
6164	VEW19	6470244.011	1770154.131	42.9

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6165	BOT TRENCH	6470348.71	1770116.969	45.05
6170	AW001	6470340.141	1770139.12	44.53
6171	TOP 1"PIPE	6470309.735	1770138.866	44.53
6172	AW002	6470309.938	1770135.031	44.1
6173	1"LINE AP	6470287.542	1770139.126	43.72
6174	AW003	6470278.308	1770135.255	43.47
6175	1"LINE	6470279.436	1770139.053	43.5
6176	1"LINE	6470261.055	1770139.166	43.87
6177	1"LINE	6470249.446	1770138.424	43.52
6178	AW004	6470248.93	1770135.855	43.27
6179	1"LINE	6470224.692	1770136.657	44.22
6180	AW005	6470218.499	1770131.92	43.52
6181	1"LINE	6470202.399	1770125.823	45.42
6182	FORM	6470202.933	1770117.605	46.31
6183	FORM	6470200.938	1770117.781	46.32
6184	FORM	6470201.3	1770113.996	46.13
6185	FORM	6470202.791	1770113.859	46.08
6200	CL VES TRENCH	6470234.524	1770135.888	44.45
6201	CL VES TRENCH	6470254.345	1770124.58	44.88
6202	CL VES TRENCH	6470265.216	1770119.678	44.89
6203	END VES PIPE	6470272.541	1770111.905	48.9
6204	END VES PIPE	6470274.198	1770115.426	48.81
6205	END VES PIPE	6470350.409	1770113.773	48.77
6206	END VES PIPE	6470350.727	1770116.015	48.69
6207	VES TRENCH	6470343.824	1770121.485	45.83
6210	3" PIPE	6470390.301	1770166.757	44.8
6211	3" PIPE AP	6470379.314	1770164.741	45.33
6212	3" PIPE	6470375.376	1770162.396	45.03
6213	3" PIPE AP	6470378.463	1770163.717	45.15
6214	3" PIPE	6470380.674	1770143.458	45.4
6215	3" PIPE	6470382.563	1770123.756	45.64
6216	3" PIPE	6470383.018	1770115.877	45.8
6217	3" PIPE VERT	6470383.039	1770115.54	48.98
6218	3" PIPE VERT	6470383.68	1770115.349	48.79
6219	3" PIPE VERT2	6470383.525	1770114.327	48.8
6220	3" PIPE	6470400.767	1770118.781	45.94
6230	AW0089B	6470227.242	1769721.132	53.18
6231	1"PIPE AP	6470208.771	1769721.531	53.39
6232	AW0090	6470197.417	1769721.49	53.08
6233	AW0091	6470167.294	1769721.596	53.26
6234	AW0102	6470147.708	1769676.895	53.41
6235	AW0101	6470172.654	1769672.765	52.2
6236	AW0100	6470217.387	1769674.548	53.07
6237	1"LINE	6470209.447	1769688.276	53.67
6238	1"LINE	6470210.173	1769652.887	53.62
6239	aw0112	6470147.013	1769631.789	53.15
6240	AW0111	6470172.856	1769631.384	53.28
6241	AW0110	6470200.414	1769630.449	52.97
6242	1"LINE	6470213.696	1769630.958	53.6
6243	AW0109	6470215.084	1769611.9	53.15

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6244	AW0107	6470224.285	1769630.692	53.15
6245	1"LINE	6470229.55	1769630.764	53.53
6246	1"LINE	6470228.01	1769603.512	53.45
6247	AW0115	6470227.55	1769586.018	52.67
6248	AW0118	6470202.215	1769583.595	52.11
6249	AW0117	6470171.817	1769586.327	53.33
6250	AW0119	6470142.211	1769586.112	53.2
6251	AW0127	6470155.461	1769541.799	53.09
6252	AW0126	6470185.407	1769541.259	52.58
6253	1"LINE	6470207.891	1769540.618	53.35
6254	AW0124	6470222.656	1769540.169	52.85
6255	AW0116	6470216.098	1769566.039	52.81
6256	FOOTING	6470235.039	1769539.465	52.2
6257	AW0123	6470262.003	1769537.985	52.38
6258	FOOTING	6470263.803	1769537.477	51.98
6259	AW0122	6470285.782	1769540.851	52.48
6260	1"LINE	6470283.192	1769559.776	53.38
6261	FOOTING	6470282.951	1769568.114	52.21
6262	AW0113	6470285.094	1769585.471	53.08
6263	1"LINE	6470284.45	1769604.735	53.23
6264	1"LINE	6470285.102	1769622.678	53.42
6265	AW0107	6470256.779	1769631.267	53.09
6266	AW0114	6470250.136	1769596.722	52.68
6267	1"LINE	6470271.565	1769629.661	52.88
6268	1"LINE	6470296.351	1769629.09	49.69
6269	TOP BOX	6470314.684	1769628.505	50.65
6270	TOP BOX	6470310.864	1769628.431	50.53
6271	TOP BOX	6470314.716	1769630.885	50.55
6272	TOP BOX	6470310.904	1769630.363	50.55
6273	AW0116	6470301.42	1769631.218	49.83
6274	TOP BOX	6470309.515	1769680.069	49.28
6275	TOP BOX	6470309.792	1769678.601	49.37
6276	TOP BOX	6470306.011	1769678.307	49.41
6277	TOP BOX	6470305.864	1769679.64	49.27
6278	AW097	6470296.763	1769677.715	48.27
6279	AW098	6470263.138	1769672.859	51.03
6280	AW099	6470242.232	1769675.806	52.34